S/081/62/000/006/015/117 B166/B101

AUTHORS:

Golutvina, M. M., Levin, V. I., Tikhomirova, Ye. A.

TITLE:

Production of arsenic-77 without a carrier from neutron-

irradiated germanium

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 6, 1962, 40, abstract 6B256 (Tr. Tashkentsk. konferentsii po mirn. ispol'zovaniyu atomn. energii. V. 2. Tashkent, AN UZSSR, 1960, 402-407)

TEXT: A technique is described for separating As 77 without a carrier from germanium irradiated by thermal neutrons. The irradiated specimen was dissolved at 90-100°C in HCl with an addition of H<sub>2</sub>O<sub>2</sub>; when this was done, the As was oxidized to As 5+. From an 8-9 M solution in HCl the Ge 4+ was extracted with CCl<sub>4</sub>, and the As 5+ remained in aqueous solution. The As 5+ was then reduced with NaI to As 3+ and also extracted. The authors give a graph showing the distribution factor of As 3+ and Ge 4+ when extracting with CCl<sub>4</sub> as a function of HCl concentration. The radiochemical purity of the Card 1/2

S/081/62/000/006/015/117 B166/B101

Production of arsenic-77....

As 77 produced is characterized by a spectrum, a curve of radiation absorption in Al, and a decay curve. Abstracter's note: Complete translation.

Card 2/2

S/186/60/002/001/019/022 A057/3129

21.3200 AUTHORS:

Golutvina, M.M.; Tikhomirova, Ye.A.

TITLE:

Determination of radioactive impurities in germanium-71 preparates

and preparation of radiochemically pure germanium-71

PERIODICAL: Radiokhimiya, v. 2, no. 1, 1960, 112 - 119

TEXT: The present investigations demonstrated that industrial samples of germanium-71 (produced by neutron bombardment of germanium metal) contain Se75, Sb124, Tu170 and Cs134 impurities in varying amounts. In order to obtain radio-chemically pure Ge71, a new simple extraction method was developed. A.N. Baraboshkin [Ref. 4: ZhNKh, 2, 11, 2680 (1957)] described two methods for the preparation of radiochemically pure Ge71, but he did not publish data concerning the half-life of the pure product. In the present investigations preliminary experiments confirmed Baraboshkin's observation of gamma- and beta-ray emitting long-lived radioactive impurities in Ge71 from industrial production. Identification of these impurities were carried out on Ge71 samples obtained by 30-day neutron bombardment of spec-pure germanium from 7 different production runs with specific activities of about 180 - 220 mc/g. Energy ranges between 30 kev and 1.5 Mev of

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22465 S/186/60/002/001/019/022 A057/A129

Determination of radioactive impurities in....

gamma-emitters were measured with a scintillation counter containing a  $\Phi$ 3y-29 (FEU-29) photomultiplier, NaJ(T1) crystal and single-channel analyzer. X-ray and beta-ray emitters were detected with an end-window counter [of T-25  $\delta\Phi\Pi$  (T-25 BFL) type]. The latter was also used for activity measurements of beta-emitters, while the activity of gamma-emitters was determined with a gamma-counter [of MC--11 (MS-11) type] or a gamma-spectrometer. Short-lived isotopes were not detected and the measurements were carried out for 14 - 16 days. The absorption curves obtained for beta-emitters and a typical gamma-spectrum curve is graphically illustrated. In order to obtain radiochemically pure  $\mathrm{Ge}^{71}$ , the following method was developed: The irradiated germanium is pulverized, dissolved in 10% NaOH solution, 30% H202 solution is added, the latter is boiled off, neutralized, and acidified with HCl up to 9 N HCl. From this solution Ge is extracted with CCl4 (repeated 2 - 3 times). Thus Cs, Sb and rare earths remain in the aqueous phase. Selenium passes partly into the organic phase and is removed therefrom with 9 N HCl. After this germanium is re-extracted with a small volume of 5 N NaOH solution from CCl4. This method gives a total germanium yield of 70% and has the advantage that filtration, destillation etc., is avoided. After chemical separation the impurities in the aqueous phase were determined radiometrically with peaks obtained for Cs and Sb and a gamma-spectrum, indicating the presence of Se

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CIA-RDP86-00513R001755610016-9

22465

Determination of radioactive impurities in....

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and of the yttrium group. The content of impurities varied in the different samples. Thus Se was determined in amounts of 6 · 10<sup>-3</sup> - 9 · 10<sup>-1</sup>½ Se<sup>75</sup>; the activity of Sb<sup>124</sup> was 1 · 10<sup>-4</sup> - 2 · 10<sup>-3</sup>½ of Ge activity; for Cs<sup>134</sup> it was 3 · 10<sup>-2</sup> - <4 · 10<sup>-3</sup>½; for Tu<sup>170</sup> 3 · 10<sup>-2</sup> - 5 · 10<sup>-2</sup>½. According to the duration of irradiation and to the content of radioactive impurities, the content of inactive impurities in the initial samples was determined as: Se 6 · 10<sup>-2</sup>½; Cs<1.5 · 10<sup>-3</sup>½; Tu 1 · 10<sup>-2</sup>½ (thus rare earths about 2½); Sb<3.5 · 10<sup>-3</sup>½. Radiochemenergy of the obtained Ge<sup>11</sup> was checked by the determination of the x-ray half-life. The obtained data (see Fig. 3) characterizing radiochemical proper-9: M. Langevin, Ann. Phys., 1, 57 (1956); Ref. 10: B.L. Saraf et al., Phys. Rev., 91, 5; 1216 (1953)]. Germanium-71 obtained by the presented method contains a maximum of about 10<sup>-5</sup> gamma-quanta per disintegration of gamma-impurities. There are 5 figures and 18 references: 9 Soviet-bloc and 9 non-Sviet-bloc.

SUBMITTED: May 23, 1959

Card 3/4

3/186/60/002/005/012/017 A051/A130

21, 3200 AUTHORS: Les

Levin, V. I.; Golutvina, M. M.; Tikhomirova, Ye. A.

TITLE:

Extraction of  $\text{Co}^{58}$  without a carrier from nickel irradiated with neutrons, by the extraction method

PERIODICAL: Radiokhimiya, v. 2, no. 5, 1960, 596 - 602

TEXT: The authors have attempted to find a more convenient method of Co<sup>58</sup> extraction and were able to develop a separation method of indicator quantities of cobalt from the macro-quantities of nickel, using the extraction method with thributylphosphate from a hydrochloric solution. Co<sup>58</sup> was extracted without a carrier from nickle oxide, irradiated with neutrons in the reactor. The radiochemical purity of the extracted Co<sup>58</sup> other existing methods of cobalt extraction and that of nickel using alcohols from solutions of perchlorates, chlorides and bromides, described by L. Garwin, A. N. Hixon (Ref. 7: Ind. Eng. Chem., 41, 10, 2298, 2303), 1955) and T. E. Moore, R. J. Lenan, P. G. Yates (Ref. 8: I. Phys. Chem., 59, 1, 90, Card 1/10

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Extraction of  $\text{Co}^{58}$  without a carrier ....

\$/186/60/002/005/012/017 A051/A130 X

Yates (Ref. 9: J. Phys. Chem., 60, 5, 564, 1956) are said to be the formation of cobalt in the form of a complex, the destruction of which requires annealing, etc. The authors of this article investigated the extraction of cobalt and TBPh nickel from HCl and H2NO3 solutions. In the first case satisfactory results were obtained, used by the authors for developing the method of Co<sup>58</sup> extraction without a carrier Experiments were conducted for determining the effect of the Co concentration on its extraction. The distribution coefficients D-C were measured of the cobalt at various concentrations of the latter (Figure 1). Further experiments for the extraction of the Co from the HCl solution showed that the distribution coefficients of the Co increase with a growth of the HCl concentration (Figure 2) passing through the maximum (K = 1.3) for solution 9 n HCl. Extraction of Co from solution with a constant concentration of chloride ions resulted in the highest values of the distribution coefficients for solutions close to neutral ones (Figure 2, 2). With an increase in the acidity of the solution the distribution coefficient first sharply drops, and then this drop slows up and the distribution coefficient becomes independent of the acidity in a certain region. Experiments conducted with solutions con-

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

Extraction of Co<sup>58</sup> without a carrier ....

S/186/60/002/005/012/017 A051/A130

taining NiCl2 and HCl, in concentrations where the chloride content remained constant and equal to 9 n resulted in a relationship shown in Figure The general relationship nature of the extraction to the acidity is the same as for the solutions containing Li+. In extracting the nickel, an investigation of the nickel distribution between the TBPh and the 9n HCl, at various concentrations of the nickel, showed that D-C- of this element under the given conditions hardly depends on its concentration within the range of  $10^{-4}$  to 1.5 n, and averages 0.003. A change in the concentration of the HCl from 4 to 11 n, hardly affects the D-C- of the nickel at all (when its concentration is 5 mg/ml). In separating the cobalt from the nickel by extraction, the method of semi-counterflow extraction was used, where the required conditions of the separation can be determined mathematically. Experimental values were compared to calculated ones. The cobalt distribution determined experimentally, corresponded well with the calculated fractions, based on the estimated D-C. The static method of extraction is said to be inconvenient for practical application, thus experiments were conducted for nickel and cobalt separation in an extraction apparatus (Figure 3) consisting of a reactor and four compartments for dynamic extraction (Ref. 12: N. E. Brezhneva, V. I. Levin, G. V. Korpusov, N. M. Man'ko,

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Extraction of Co<sup>58</sup> without a carrier ....

S/186/60/002/005/012/017 A051/A130

E. K. Bogacheva. II Mezhdunar. konfer. OON po primeneniyu atomnoy energii v mirnykh tselyakh, doklad No 2295). A product containing 95% Co of the initial amount was obtained. The content of the solid non-volatile residue in the product did not exceed 0.1 mg/mc.  $Co^{50}$  was also extracted from irradiated Ni<sub>2</sub>O<sub>3</sub> and its radiochemical purity was investigated. The Co<sup>6</sup>O determination was performed by means of a scintillation spectrometer taking into consideration the presence of gamma-lines having an energy of 1.6 Mev, when irradiating the co58, and representing 0.5 % of the intensity of the 0.81 Mev gamma-line (Ref. 13: B. S. Dzhelepov, L. K. Peker, Skhemy raspada radioaktivnykh yader. Izd. AN SSSR, M.-L., 1958). In discussing the experimental results the authors point out that the main aim was to find the optimum conditions of  ${\rm Co}^{58}$  extraction and, thus, the investigations were not systematic. Certain conclusions are formed, however: The extracted TBPh chloride complexes of cobalt are said to be much more stable than the corresponding complexes of nickel. The iron complexes are even more stable, the D-C- of which, between the TBPh and the HCl reaches 105 (Ref. 14: H. Irving, D. N. Edgington, J. Inorg. Nucl. Chem. 10, 3/4, 306, 1959; Ref. 16: E. Bankmann, H. Specker, Z. Analyt. Chem., 162, 1. 18, 1958). The independence of the D-C- of the cobalt to the concentration of the latter, noted

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

Extraction of Co<sup>58</sup> without a carrier ....

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along a wide range of concentrations, points to the absence of polymer forms both in the organic as well as in the water phases. The nature of the extracted cobalt complex is said to be somewhat unclear to the authors, and although Irving and Edgington (Ref. 14) feel that CoCl2 . 2TBF is extracted, the authors of this article claim that nature of relationship of. the cobalt extraction to the acidity, at a constant concentration of the chloride ions (Ref. 14, Figure 8) points to the possible presence of a hydrogen ion in the composition of the extracted compound. If it is assumed that the extraction of the Co takes place in the form of two compounds, for example, CoCl2 and H2CoCl2, then with a growth in the acidity (at a constant concentration of the chloride ions) first, it is thought a decrease of the extraction can take place, due to a drop of the concentration of the free TBF, bound by the extracting HCl. Then with a further growth of the acidity, the formation of H2CoCl begins to take precedence, the extraction of which would cause an increase of the D-C-, which, it is thought, is noticed during the experiment, although not always in the same way. No explanation has been found as to why the extraction of the Co decreases when the Li+ ions are replaced in the solution by Ni2+ ions, and further investigations of this system are recommended. The authors state that

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Extraction of Co<sup>58</sup> without a carrier ....

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although the suggested method of Co<sup>58</sup> extraction gives sufficient purity, other variations such as Co extraction at a lowered acidity, can be used at high chloride concentration conducting the process in a concentrated NiCl<sub>2</sub> solution and (or) adding to it calcium chloride or magnesium chloride. The advantage of this variation would be the possibility of decreasing the volumes of the extract and reextract due to an increase in the D-C- of the cobalt at low acidity. There are 5 figures, 1 table, 16 references: 3 Soviet-bloc and 13 non-Soviet-bloc. The four recent English language publications read as follows: R.S. Rochlin, Nucleonics, 17, 1, 54, 1959; H. Irving, D. N. Edgington, J. Inorg. Nucl. Chem., 10 3/4, 306, 1959; D. F. C. Morris, C. F. Bell, J. Inorg. Nucl. Chem., 10, 3/4, 336, 1959; C. E. Mellish, J. A. Payne, R. L. Otlet, UNESCO. Internat. Confer. radioisotopes in sci. res. Paper, 189, Paris, 1957.

Card 6/10

s/186/61/003/005/013/022 E071/E185

Levin, V.I., Golutvina, M.M., and Tikhomirova, Ye.A.

The preparation of arsenic-74 from neutron-AUTHORS : TITLE

irradiated selenium

PERIODICAL: Radiokhimiya, v.3, no.5, 1961, 597-600

In order to find a simple and cheap method of production of arsenic 74 (used in medicine and other fields) the authors investigated the possibility of using for this purpose authors have action  $Se^{74}(n,p)As^{72}$  carried out in a nuclear TEXT : reactor. One selenium specimen was irradiated in a usual channel placed in the moderator for 65 days in a stream of 4 x 103 neutrons/cm<sup>2</sup>.sec, and the second for 470 hours inside the fuel element in a stream of  $7 \times 10^{13}$  neutrons/cm<sup>2</sup> sec. In order to decrease the formation of Se75 the second specimen was surrounded by a cadmium filter. The irradiated selenium (in the form of fine powder) was dissolved in concentrated HNO3, stable arsenic added and the salts transformed into a solution in hydrochloric acid from which selenium was precipitated with sulphurous acid.

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APPROVED FOR RELEASE: 07/16/2001

The preparation of arsenic-74 ...

S/186/61/003/005/013/022 E071/E185

After the separation of selenium, MgNH4AsO4 was precipitated and redissolved in hydrochloric acid. Selenium - carrier was added and precipitated with sulphurous acid. The above operation was repeated 2 - 3 times. Finally arsenic was obtained as Mg2As2O7 (yield about 60%), its activity was measured and its (yield about 60%), its activity was measured and its indicated the presence of an admixture with an energy of about indicated the presence of an admixture with an energy of about indicated the presence of an admixture with an energy of about indicated that on irradiation of selenium in a stream of neutrons indicated that on irradiation of selenium in a stream of neutrons (7 x 1013 neutrons/cm2.sec) arsenic 74 can be obtained with an activity of up to 200 microcurie per g of selenium. On irradiation of selenium for 470 hours in a neutron stream of irradiation of selenium for 470 hours in a neutron stream of about 7 x 1013 neutrons/cm2.sec the actual yield was determined about 7 x 1013 neutrons/cm2.sec the actual yield was determined of the product depends on the purity of selenium irradiated and of the product depends on the purity of selenium irradiated and of the product depends on the simultaneously produced are As76 arsenic isotopes which can be simultaneously produced are As76

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S/186/61/003/005/013/022 The preparation of arsenic-74 ... E071/E185

(T = 26.75 hr) and As<sup>77</sup> (T = 39 hours) which rapidly decompose. A substantial advantage of the method proposed is that As<sup>73</sup> with the half period of 76 days, which is particularly undesirable in medical application, is not formed. The calculated value for the effective reaction cross-section of  $Se^{74}(n,p)As^{74}$  for fission neutrons ( $\sigma \approx 2.9$  millibarn) agrees with the experimental one ( $\sigma \approx 1.6 \text{ millibarn}$ ).

There are 2 figures, 1 table and 10 references: 4 Soviet-bloc, 1 Russian translation from non-Soviet publication and 5 non-Soviet-bloc. The English language references read as follows: Ref.1: G.L. Brownell, W.H. Sweet. Acta Radiol. v.46, 1-2, 425, 1956. Ref.4: I.J. Gruverman, P. Kruger. Intern. J. Appl. Radiat.

Isotopes, v.5, 1, 21, 1959.

Ref.7: R.S. Rochlin. Nucleonics, v.17, 1, 54, 1959.

Ref. 9: D.J. Horen, W.E. Meyerhof, I.I. Kraushaar, D.O. Wells, E. Brun, J.E. Neighbor. Phys. Rev., v.113, 3, 875, 1959.

SUBMITTED: June 23, 1960

Card 3/3

S/847/62/000/000/003/003 B144/B186

AUTHORS: Tronova, I. N., Tikhomirova, Ye. A., Shlyagin, K. N.

TITLE: Obtaining promethium 149 without a carrier

PERIODICAL: Metody polucheniya radioaktivnykh preparatov; sbornik statey (Methods of producing radioactive preparations; collection of articles). Moscow, Gosatomizdat, 1962. 170 p. illus., biblio 147 - 160

TEXT: Ion exchange chromatography was used to isolate carrier-free Pm  $^{149}$  from Nd  $_2$ O  $_3$  irradiated with slow neutrons. The initial material was Nd  $_2$ O  $_3$  tagged with Nd  $^{147}$  and Pm  $^{147}$ . Dry Ky-2 (KU-2) cationite resin (100-150 mesh) was kept standing for 24 hrs with distilled water and then purified from

organic and Fe impurities by washing it with NaOH, distilled  $\rm H_2O$  and  $^{\circ}3$  N HCl. Subsequently it was transformed into the ammonium form by washing it for 30-40 min. with a solution of 15% NH<sub>4</sub>Cl + NH<sub>3</sub>. The Cl ions were removed by  $\rm H_2O$  and a 0.04 M NdCl<sub>3</sub> solution (pH $\approx$ 2) which contained Pm  $^{147}$  and Nd  $^{147}$  as indicators was passed through the 50-cm resin layer. Ethylene Card 1/4

Obtaining promethium 149...

S/847/62/000/000/003/003 B144/B186

diamine tetraacetic acid (I) or nitrile triacetic acid (II) as complex-forming substances were used for elution; the separation was checked radiometrically. Optimum results were obtained at a throughput rate of 0.3 and 1 ml/cm²·min. A 0.5% solution of II with a pH of 5.7 - 6.5 should be given preference, because in this case no precipitate is formed on the resin; the Pm¹47 yield was ~90%. Separation by a 0.5% solution of I (pH 3.6) is also very efficient but the reaction is very sensitive to pH fluctuations, resulting in precipitation of I on the resin. The resulting complex compound formed by Pm and II was separated chromato-graphically in a column filled with KU-2 resin in the H⁺-form by acidification with concentrated HCl to pH  $\approx$ 2. The Pm¹49 adsorption was 98-100%. The Cl and II anions were removed by washing with distilled H<sub>2</sub>0. 4. Conclusions based on the elution curve (Fig. 3) and on determination of the radioactivity by  $\beta$ -radiation absorption and assaying of the decay: (1) the main portion of the radioactivity corresponds to Pm¹49 (first peak). (2) Impurities up to 2% Md¹47, 0.3% Pm¹47, and Pm¹51 were found to be present.

Obtaining promethium 149...

S/847/62/000/000/003/003 B144/B186

(3) The dry residue in the  $Pm^{149}$  preparation was 1 mg/mcu. (4) The second peak corresponds to Nd  $^{147}$  without radioactive impurities. There are 7 figures and 4 tables.

Fig. 3. Curve of elution of  $Nd_2O_3$ , irradiated with slow neutrons, using II as eluent. Cationite KU-2 in the  $NH_4^+$ -form; size of the resin particles 100 - 150 mesh. Legend: (a) activity,  $\times 10^7$  pulse/min; (b) volume, ml.

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BRAUDE, V.I. (Moskva, G-34, ul. Kropotkina, d.15/10, kv.4); TIKHOMIROVA, Ye.A.; SERE ZHNIKOVA, S.F.

Ectopic choricepithelioma of the lungs; two observations. Vop. onk. 10 no.7:90-93 '64. (MIRA 18:4)

1. Iz Moskovskogo gosudarstvennogo nauchno-issledovatel'skogo instituta tuberkuleza Ministerstva zdravookhraneniya RSFSR (dir. - kand. med. nauk T.P.Mochalova).

SVISHCHUK, A.A.; TIKHOMIROVA, Ye.A.

Model synthesis of dl- -tocopherol tagged with C<sup>14</sup>. Ukr. khim. zhur. 29 no.10:1070-1072 '63. (MIRA 17:1)

1. Institut organicheskoy khimii AN UkrSSR.

ASEYEV, D.D.; KOROVINA, Yu.P.; ODNOLETKOVA, Ye.F.; TONITROVA, N.S.; TIKHOMIROVA, Ye.A.

Differential diagnosis of pleuropneumosclerosis of tuberculous and other etiology. Probl.tub. no.5:11-20 161. (MIRA 15:1)

1. Iz diagnosticheskogo otdeleniya (zav. - prof. D.D. Aseyev)
Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza
Ministerstva zdravookhraneniya RSFSR (dir. V.F. Chernyshev,
zam. dir. po nauchnoy chasti - prof. D.D. Aseyev).

(LUNGS-DISEASES) (DIAGNOSIS, DIFFERENTIAL)

GENDEL'MAN, M.A. , prof., doktor ekonom.nauk; TIKHOMIROVA, Ye.D., kand. Preliminary forms of land organization for state farms on virgin lands. Zemledelie 7 no.7:82-87 Jl 159.

(Akmolinsk Prevince-State farms)

PROSVIRNOV, K. P., dotsent; TIKHOMIROVA, Ye. G.

Effectiveness of ambulatory chemotherapy in tuberculosis of the lungs. Probl. tub. no.3:58-63 162. (MIRA 15:4)

1. Iz kafedry fakulitetskoy terapii (zav. - prof. A. M. Yeliseyeva) Ivanovskogo meditsinskogo instituta (dir. - dotsent Ya. M. Romanov) i Frunzenskogo gorodskogo protivotuberkuleznogo dispansera (glavnyy vrach Ye. G. Tikhomirova)

(TUBERCULOSIS) (CHEMOTHERAPY)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

# TIKHOMIROVA, Ye.I., ordinator

Causes of unequal development of the fetuses in multiple (MIRA 15:11) pregnancy. Akush.i gin. no.1:54-59 162.

1. Iz akushersko ginekologicheskogo otdeleniya 1-y klinicheskoy bol'nitsy (glavnyy vrach zasluzhennyy vrach BSSR A.I. Shuba), (PRECRIANCY, COMPLICATIONS OF) (FETUS) Minsk.

CIA-RDP86-00513R001755610016-9" APPROVED FOR RELEASE: 07/16/2001

# "APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9 ,我不知识那们,也能够被我们到此行福间的特别的,他都是这种的问题的想象,就是他的人的人,也不会把我多多的人的人。 "我不知识那们,也也就是我们的人,我们就是我们的人,我们就是我们是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我

TIKHOMIKOVA, Ye.I.
ZABRODSKIY, A.G.; TIKHOMIROVA, Ye.I. Bffect of melanoidins on malt microflora [with summary in English]. (MIRA 11:4) Mikrobiologiia 27 no.1:127-130 Ja-F 158.

1. Kiyevskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta spirtovoy promyshlennosti.
(MELANOIDINS) (BREWING)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

BERLIN, A.A.; D'YAKONOVA, V.P.; TIKHOMIROVA, Yo.I.

Polyester samplate emulsions as binders for cellulose fiber materials.

(MIRA 18:6)

Plast. massy no.4:55-57

TIKHOMIROVA, Yo. I.: Moster Med Sci (diss) -- "X-ray data on the function of the distal portion of the large intestine". Knybyshev, 1058. 16 pp (Knybyshev Med Inst), 250 copies (KL, No 5, 1959, 157)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

TRACAMBOUD De. E.

USSR/Chemical Technology - Chemical Products and Their Application. Fermentation

Industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63545

Serbinova, N. I., Tikhomirova, Ye. I. Author:

Institution: None

> Determination of Contamination of Molasses with Microorganisms Title:

Original

Periodical: Spirt. prom-st', 1956, No 1, 16-17

Abstract: A modified sampling for spontaneous fermentation is proposed: 5 g

of molasses under study are dissolved in 100 ml sterile water, 1% of superphosphate extract is added and the sample is placed into a thermostat at 30-32°; after 24-48 hours microscopic examination is made and acidity is determined. Increase in acidity after 48 hours 18 0.7-1.20 in the case of strongly contaminated molasses; up to 1.7-1.9° and higher for tainted, as compared with a maximum of 0.5° for standard molasses. Amounts of acid- and slime-producing bacteria are determined from the number of colonies that develop on molasses agar.

The above stated bacteria are differentiated by the nature of the

Card 1/1colonies.

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SERBINOVA, N.I.; TIKHOMIROVA, Ye.I.

Determination of bacterial contamination of molasses. Spirt. prom. 22 no.1:16-17 '56. (MIRA 9:7)

1. Kiyevskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta spirtovoy promyshlennosti (for Ashkinuzi, Rabinovich). 2. Glavspirt (for Berenshteyn). 3. Chernigovskiy spirtovyy trest (for Chatskiy).

(Sugar--Bacteriology)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

DRAZHNER, T.M.; ASHKINUZI, Z.K.; YEL'CHITS, S.V.; Prinimala uchastiye Tikho-mirova, Ye.I., khimik

Use of the dry culture of Aspergillus orymae for saccharification in the distilling industry. Trudy Ukr.NIISP no.8:80-88 (MIRA 17:3)

TIKHOMIROVA, Ye.I., assistent, kand.med.nauk

Fucntion of the distal protion of the large intestine observed (MIRA 14:11)
by I rays. Elem.prokt. no.2249-54 \*60. (MIRA 14:11)
(INTESTINES.—RADIOGRAPHY) (DEFECATION)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

| HANNA TERRETARIAN MANAGEMENTA | ARTHUR PROPERTY OF THE PROPERT |             |
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|                               | TIKHOMIROVA, Ye.I.   |             |
|                               | Labor involving two massive fetuses. Zdrav. Belor. 6 no. 10:60-61 (MIRA 13:10)   |             |
|                               | l. Iz kafedry akusherstva i ginekologii (zaveduyushchiy - prof. I.M. Starovoytov) Minskogo meditsinskogo instituta. (LABOR (OBSTETRICS)) (FETUS) (RH FACTOR)   |             |
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TIKHOMIROVA, Ye.I. (Kuybyshev) Clinical roentgenological diagnosis of atherosclerosis of the abdominal aorta. Klin.med. 38 no.9:117-120 S '60.

(MIRA 13:11)

1. Iz kafedry rentgenologii i radiologii (zav. - prof. Ye.L. Kevesh) Kuybyshevskogo meditsinskogo instituta.

(ARTERISCLEROSIS) (AORTA—DISEASES)

CIA-RDP86-00513R001755610016-9" **APPROVED FOR RELEASE: 07/16/2001** 

ц0200 S/135/62/000/009/003/00<sup>1</sup>; A006/A101

1.2310

Aynbinder, S. B., Candidate of Technical Sciences,

Tikhomirova, Ye. K.,

TITLE:

AUTHORS:

On the mechanism of the formation of Joints in ultrasonic welding

PERIODICAL: Svarochnoye proizvodstvo, no. 9, 1962, 34 - 37

TEXT: Results from metallographical investigations of ultrasonic-welded Joints confirm Aynbinder's theory on the possible mechanism and kinetics of ultrasonic welding presented in a previous article (Svarochnoye proizvodstvo no. 12, 1959). For the present study, smooth and rippled Cu and Al specimens were ultrasonic-welded at constant and variable oscillation amplitudes and varywere ultrasonic-welded at constant and variable oscillation amplitudes and varywere welding time. Optimum properties of joints were obtained at 0.17 - 0.23 sec for Al specimens and at 1.5 sec for Cu samples; the formation of strong joints was then accompanied by a recrystallization process. Cohesion of rippled specimens was poor. The tests show that satisfactory cohesion of the welded surfaces can only be assured if the surface temperature is as high as recrystallization temperature or even higher. Therefore heating is necessary. The mechanism of the ultrasonic process is explained as follows: As a result of applying constant normal and tangential loads, oxide films in the welding zone are destroyed and Card 1/2

On the mechanism of the formation of...  $\bullet$ 

S/135/62/000/009/003/004 A006/A101

removed from the contact surfaces; simultaneously contaminations are eliminated or burnt-out. As a result of friction, the surface temperature increases to a degree which makes it possible to obtain a uniform cohesion zone at a given pressure. Subsequently, dissipation of energy in the welding zone decreases as external friction passes-over to internal friction. Further application of ultrasonic oscillations may cause fatigue failure of the joints produced. There are 8 figures.

ASSOCIATION: Institut avtomatiki i mekhaniki AN Latviyskoy SSR (Institute of Automation and Mechanical Engineering at AS of the Latvian SSR)

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

TIKHOMIROVA, Ye. K. (Engineer, Riga Polytechnic Institute)

"Ultrasonic welding of thin materials".

Report presented at the 3rd Baltic Conference on Welding, convened by the Sovnarkhozes of the Lithuanian SSR, Latvian SSR, and Estonian SSR, 8-9 April 1964, Vilnyus.

[Avtomaticheskaya SVARKA, No. 7, 1964 p. 95]

AYNBINDER, S.B., kand.tekhn.nauk; TIKHOMIROVA, Ye.K., inzh.

Mechanism of joint formation in ultrasonic welding. Svar. proiz. no.9:34-37 S '62. (MIRA 15:12)

1. Institut avtomatiki i mekhaniki AN Latviyskoy SSR. (Ultrasonic welding)

General automatic control of boiler houses. Gaz. delo no. 11:
19-21 '63. (MIRA 17:5)

1. Leningradskoye upravleniye magistral'nykh gazoprovodov.

BAZEKIN, Aleksandr Aleksandrovich; TIKHOLIROV, Ye.N., nauchn. red.; RUSAKOVA, L.Ya., ved. red.

[Control and measuring instruments and automation regulators in gas distribution stations for gas mains] Kontrol'no-izmeritel'nye pribory i avtomaticheskie reguliatory gazoraspredelitel'nykh stantsii magistral'nykh gazoprovodov. Moskva, Nedra, 1964. 78 p. (MIRA 17:5)

TIKHOMIROVA, Ye.N., kand. ekon. nauk, dotsent

Methodology of economic substantiation of the planned technology of transshipment operations in ports. Trudy LIVT no.74:13-19 '64. (MIRA 18:11)

TIKHOMIROVA, Ye.N., kand.ekonomicheskikh nauk

Distribution of indirect expenditures in the calculation of transportation and loading and unloading costs. Trudy LIVT no.3:41-45 '60.

(Inland water transportation—Costs)

(Cargo handling—Costs)

TIKHOMIROVA, Ye.N., kand.ekonom.nauk

Ways to reduce the cost of loading and unloading operations in river harbors. Trudy LIIVT. Vop. ekon. i org. vod. transp. no.2:54-65 (MIRA 13:11)

(Cargo handling—Costs)

A STATE OF THE STA

IRKHIN, Aleksandr Petrovich, kand.tekhn.nauk; YERPICHEV, Mikhail Ivanovich, inzh.; TSYPIN, Yakov Yevgen yevich, inzh.; TIKHOMIROVA, Ye.H., red.; VOLCHOK, K.M., tekhn.red.

[Economic aspects and the organization of transportation by the self-propelled freighter fleet] Ekonomika i organizatsiia perevozok samokhodnym gruzovym flotom. Leningrad, Izd-vo "Rechnoi transport," Leningr.otd-nie, 1960. 94 p. (MIRA 13:9) (Inland water transportation)

BARER, A. S.; GOLOV, G. A.; ZUBAVIN, V. V.; MURAKHOVSKIY, K. I.; RODIN, S. A.; SOROKINA, Ye. I.; TIKHOMIROV, Ye. P.

"Physiological reactions of the human organism to transverse accelerations and means of raising the resistance to such forces."

report presented at the 15th Intl Astronautical Cong, Warsaw, 7-12 Sep 64.

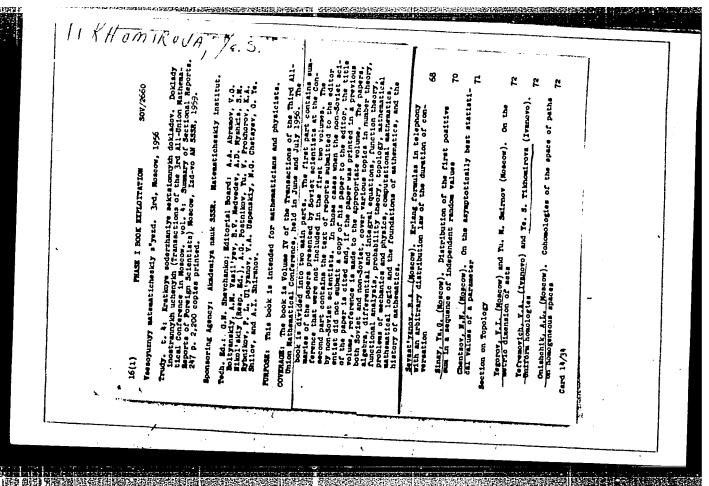
APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

Ye. I.; TIKHOMIROV, Ye. P. P. MURAKHOVSKIY, K. I.; RODIN, S. A.; SOROKINA,

"Physiological reactions of the human organism to transverse accelerations and some means of raising the resistance to such probes."

report submitted for 15th Intl Astronautical Cong, Warsaw, 7-12 Sep Ch.

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|                 | HASE I BOOK ECFLOITATION | v metallath 1 sitton Phencaena inno) Moscow, Meta  | ratvo vysabego i<br>stitut stali imen   | kal'shteyn; Ed, o   | of articles is in<br>other education<br>in metals. It may   | contains results of schools of higher | id of the released<br>roted to the inve-<br>ion of supersatu | rystalline lattice, and creep. Fretieness, the use    | The collection all<br>slattic after-eff<br>tioned. Heference  | sky politekinich<br>tie Aftereffect o  | Pator, E.S. (Institut metallordenha i fiziki metallor faz<br>of Science of Mials and Physics of Metals of the Tellicy)).<br>Elastic Aftereffect in Imagensous Bolles | 11 alkora (Finiko<br>of the Academy or<br>sation in Overstry   | I (Institute of<br>riction in Delume   | Laikov (Kenerovo<br>Mernal Prictica   | Polytechnic Inst.<br>of the Method of 1   | Physics of Metals<br>Systel Lattice by   | w [Institute of F<br>e of the Internal   | ichers (Inetitut<br>the Effect, of the<br>I Green  | Calultov (Kamerov<br>Aluxinea, Silver  | dagogical Institu<br>and Alloys at Els   | Hithmings (Nos  | Josularstvenny w                                 |
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YEFREMOVICH, V.A.; TIEHOMIPOVA, Yo.S.,

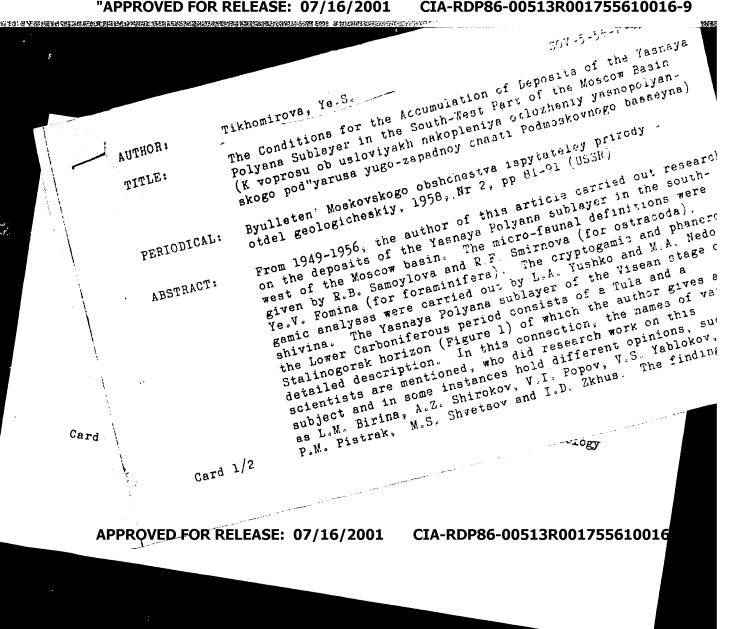
Equimorphisms of hyperbolic scaces. Izv. AN SSSR. Ser. sat. 28 nc.;

1139-1144 S-0 \*64. (MIRA 17:11)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

TIKHOMIROVA, Ye. S., Cand Geol-Min Sci -- (diss) "Lithology of deposits of Yasnaya Polyana substratum of the lower carboniferous period of the southwestern part of Moscow x basin." Mos, 1958. 19 pp (Awad Sci USSR, Geol Inst), 130 copics (KL, 17-58, 106)

-15-



YEFREMOVICH, V.A.; TIKHOMIROVA, Ye.S.

Continuation of an equimorphism to infinity. Dokl. AN SSSR 152 (MIRA 16:12)

1. Matematicheskiy institut im. V.A.Steklova AN SSSR. Predstavleno akademikom L.S.Pontryaginym.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

# TIKHOMIROVA, Ye.S.

Palygorskite from Mangyshlak Lower Oligocene deposits. Dokl. AN SSSR 149 no.3:688-691 Mr '63. (MIRA 16:4)

1. Geologicheskiy institut AN SSSR. Predstavleno akademikom N.M.Strakhovym.

(Mangyshlak Peninsula--Palygorskite)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

Groups of uniform homologies. Izv.AN SSR.Ser.mat. 26 no.6:865-(MIRA 15:12)
876 N-D \*62. (Homology theory)

TIMHOMIROVA, Ye.S.

New proximity invariant. Usp.mat.nauk 13 no.5:197-202

(MIRA 11:11)

(Differential invariants)

是一个人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一

TIKHOMIROVA, Ye.S.

Geochemistry of shale-bearing deposits in the Baltic Basin. Dokl.
AN SSSR 136 no.5:1209-1212 F '61. (MIRA 14:5)

1. Geologicheskiy institut AN SSSR. Predstavleno akad. N.M. Strakhovym.

(Estonia-Oil shales) (Geochemistry)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

AUTHOR: Tikhomirova, Ye.S.

SOV/42-13-5-8/15

TITLE:

THE PROPERTY OF THE PROPERTY O

A New Infinitesimal Invariant (Novyy invariant blizosti)

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13,Nr 5, pp 197-202 (USSR)

Definition: A Riemannian space is called infinitesimally acyclic in the dimension r if there exist constants c and C so that to every r-dimensional cycle  $Z^r$  with  $d(Z^r) > c$  there exists a chain

 $L^{r+1}$  for which  $\Delta L^{r+1} = Z^r$  and (d(x) denotes the

diameter of the carrier of x).

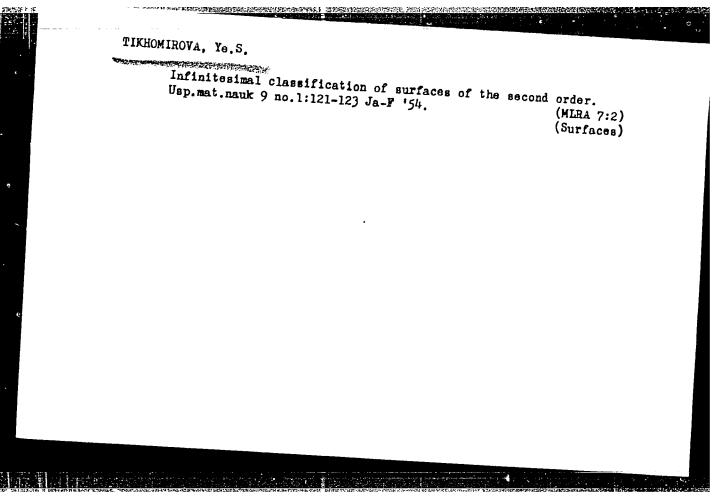
Theorem: The infinitesimal acyclicity is an infinitesimal invariant.

Several examples for the application of the introduced notion are given, e.g. infinitesimal classification of the paraboloids

There are 5 references, 4 of which are Soviet, and 1 German.

SUBMITTED: February 14, 1957

Card 1/1



# TIKHOMIROVA, Ye.S.

Factors governing the accumulation of Yasnaya Polyana sediments in the southwestern part of the Moscow Basin. Biul. MDIP. Otd. gool. 33 no.2:81-91 Mr-Ap 158. (MIRA 11:10)

(Moscow Basin--Geology, Stratigraphic)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

AUTHOR: 20-119-3-53/65 Tikhomirova, Ye. S. TITLE: New Data Concerning the Structure of Upa Deposits in the Podmoskovnyy Basin (Novyye dannyye o stroyenii upinskikh otlozheniy v Podmoskovskom basseyne) PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 3, pp. 579-581 (USSR) Up to now it has been assumed that the maximum thickness ABSTRACT: of the Upinskiy zone hardly surpasses 20 to 30 n. Only in one case in the Kaluga area C, 1ir reaches 44 m. The most complete scheme of a stratigraphic division was suggested in references 1 and 2, on the occasion of which 4 parcels (Figure 1) were separated. The author investigated the mentioned zone in detail. Its thickness fluctuates in the south-western part of the mentioned basin between 20 and 53 m. All four parcels mentioned were found their thickness being 25 m. For this reason the mass which is stratified on it and which has a thickness of 28 m represents a new, completely unknown part of the Upinskiye Card 1/3 deposits. The author divided it into 3 parcels and it

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New Data Concerning the Structure of Upa Deposits in the Podmoskovnyy Basin

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20-119-3-53/65

shows certain lithologic and paleontologic characteristics (Figure 1) differing from that of the lower part of the zone. A lithologic description is given. Thus, the Upinskiy zone does not consist of 4 but of 7 parcels. The following parcels were separated in addition to the hitherto known (References 1,2): 1. Breccia-like limestones of rounded splinters of a size of up to 5 cm cemented with calcareous loamy substance. 2. Pseudo breccialike dolomite containing limestones which formed by recrystallization and dolomitization of primary limestones. 3. Loams of "collomorphous" structure. Ellipsoidal and round formations of concenters of different colors become visible under the microscope. The latter consist of loamy substance and indicate a regrouping of substance in the rocks during diagenesis. 4. Bituminous coal. In the found intermediate layer of Klaren-durain lenses of a texture transformed into fusain and sparse bone splinters were found between the Gurichella- and Sphaera layers (Figure 1). Concluding, the process of sedimentation is described according to reference 2. There are 1 figure and 3 references, all of which are Soviet.

Card 2/3

New Data Concerning the Structure of Upa Deposits 20-119-3-53/65

ASSOCIATION: Geologicheskiy institut Akademii nauk SSSR (Geological Institute, AS USSR)

PRESENTED: May 6, 1957, by N. M. Strakhov, Member, Academy of Sciences

SUBMITTED: April 15, 1957

AVAILABLE: Library of Congress

THE PROPERTY OF THE PROPERTY O

Card 3/3

THE REPORT OF THE PROPERTY OF

TIKHOMIROVA, Ye.S.

New data concerning the structure of Upa deposits in the Moscow Basin. Dokl. AN SSSR 119 no.3:579-581 Mr '58. (MIRA 11:6)

1.Geologicheskiy institut AN SSSR. Predstavleno akademikom N.M. Strakhovym.

(Moscow Basin--Geology, Stratigraphic)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

LUTHOR:

Tikhomirova, Ye.S.

80V/20-120-3-7/67

TITLE:

Some Homological Invariants of Equimorphic Transformations (Equimorphisms) (Nekotoryye gomologicheskiye invarianty ekvimorfnykh precbrazovaniy (ekvimorfizmov))

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 120, Nr 3, PP 475-476(USUR)

ABSTRACT:

A complete metric space R is called geodesic if for two arbitrary points x and y of R there exists a third point z so that g(x,z) = g(z,y) = 1/2 g(x,y). Let R be geodesic. If Y is an arbitrary continuous chain, then d(Y) denotes the diameter of the carrier of Y. Let to every positive integer k correspond a domain  $P_k \subset R$ . Let from  $x \in R$  follow  $x \in P_k$  if and only if there exists a continuous cycle  $Z\sim 0$  of R with

a carrier containing x so that for every chain X with boundary

 $\frac{d(X)}{d(Z) + 1}$  > k . Let  $H_k^r$  denote the sub-

group of the group of continuous r-dimensional homologies of Pk which consists of all classes homologic to zero in R. Since  $P_k \supset P_{k+1}$  it exists a natural homomorphism  $\varphi_k$ 

Card 1/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

Some Homological Invariants of Equimorphic Transformations /20-120-3-9/67

group  $H_{k+1}^r$  into the group  $H_k^r$ . The limit value (according to Aleksandrov [Ref 2]) of the series of homomorphisms. The author shows that the group  $Q^r$  is an invariant of the equipment transformations of the geodesic space R. Some examples. The paper is written under the series.

The paper is written under the guidance of V.A. Efimovich and represents a part of the dissertation of the author.

There are 3 Soviet references.

ASSOCIATION: Belgorodskiy gosudarstvennyy pedagogicheskiy institut (Bel-PRESENTED: January 2 1000 Institute)

PRESENTED: January 8, 1958; by P.S. Aleksandrov, Academician December 30,1957

A CONTRACTOR OF THE PROPERTY O

1. Transformations (Mathematics) 2. Geodesics 3. Topology

Jard 2/2

TIKHODIBENA, YES

AUTHOR:

Tikhomirova, Ye. S.

2016年2月25日 1916年 1

20-4-33/52

TITLE:

On the Problem of the Distribution of Rare Element Proportions in the Deposits of the Tula Horizon of the South-Western Part of the Podmoskovnyy Basseyn (Near-Moscow Basin) (K voprosu o raspredelenii rasseyannykh soderzhaniy elementov v otlozheniyakh tul'skogo gorizonta yugo-zapadnoy chasti Podmoskovnogo basseyna).

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 117, Nr 4, pp. 661-664 (USSR)

ABSTRACT:

The investigation of the genesis of deposits and the regularity of distribution and accumulation of different elements in the sediments is only possible by geochemical study of the sedimentary masses. The treatise discussed here treats the distribution of Fe, Mn, P and some other elements in the strata mentioned in the title. A short characterization of the Tula horizon is given. The author studied the problem mentioned shove in sediments of marine genesis. Figure 1 a shows that the proportion of iron is increased at the transition from sands to aleurolites and loams. The highest proportion is reached in loams. In carbonate rocks the proportion of iron decreases. But if we convert the quantity of iron to the weighed quantity free

Card 1/4

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

On the Problem of the Distribution of Rare Element Proportions in the Deposits of the Tula Horizon of the South-Western Part of the Podmoskovnyy Basseyn (Near-Moscow Basin)

2**0-4-33/5**2

from carbonate we see that the quantity of iron is rapidly increased. This proves that iron has the tendency to accumulate in the parts of the water most distant from the banks. The results of the calculation of the proportion of iron in minerals with little proportions of organic substance showed that the concentration of organic substance in sediments causes the decrease of the proportion of iron. We can conclude from that the biogenetic supply of iron to the sediments was of no essential importance. The same regularity applies to the distribution of phosphorus and manganese (figure 2). The proportion of phosphorus differs very much, and often there is none at all. This can be explained by its higher biochemical mobility and by its capacity of redistribution in the sediment during the diagenesis. Moreover figure 2 a shows that the quantity of manganese in carbonate rocks is increased to such an extent that its absolute values are still increased in spite of the diluting effect of the carbonate material. There is a

Card 2/4

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On the Problem of the Distribution of Rare Element Proportions in the Deposits of the Tula Horizon of the South-Western Part of the Podmoskovnyy Basseyn (Near-

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contrast between the distribution of Mn and P in pelagic facies and in those near to the banks. So figure 2 b shows that P is accumulated 39 times more intensely in pelagic parts than in the sand, whilst this relation is 1775 with Mn. Table 1 shows that the proportion of "small" elements (Cu, Cr, V, Ni, and Co) increases when the diameter of the elastic material is decreased; and decreases at the transition from loams to carbonate rocks. The proportion of all of these 5 elements increases at a conversion to a weighed quantity free from carbonate. If the proportion of each element in loames is denoted with i the greatest contrast of proportion is with copper which is 43 times more accumulated in carbonate rocks than in terrigenous rocks. These relations are 14,9 with Cr, 17,9 with N1, 16,9 with V, and 9,2 with Co. The author concludes from the approximative average determinations of the proportions of Ti, Mg, Be, Ga, and Ba in the mineral types that on the whole these elements are distributed according to the same regularity which applies to the siderophilic group (table 2). The comparison

Card 3/4

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

On the Problem of the Distribution of Rare Element Proportions in the Deposits of the Tula Horizon of the South Western Part of the Podmoskovnyy Basseyn (Near-

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20-4-33/52

of recent and fossil sediments (Tule horizon, Under Frasnian, reference 5) shows the corresponding distribution of elements in different mineral types. The scheme of Strakhov (reference 4) for recent waters can also be employed to older sediments. Finally the differences in the proportions of the mentioned "small" elements in Tula and Under Frasnian sediments are discussed, and explaining hypotheses are given. There are 2 figures, 3 tables, and 7 references, all of which are Slavic.

ASSOCIATION: Geologic Institute of the AN USSR (Geologicheskiy institut

PRESENTED: May 6, 1957, by N. M. Strakhov, Academician

SUBMITTED: April 29, 1957

AVAILABLE: Library of Congress Card 4/4

TIKHOMIROVA, Ye.S., Cand Phys **22x** Math Sci -- (diss)"Homological invariants of equimorphisms." Mos,1958, 5 pp (Acad Sci USSR. Math Inst im V.A. Steklov) 120 copies (KL, 32-58, 106)

- 3 -

TIKHOMIROVA, Ye.S.

Geochemical mobility of elements during the formation of sulfide concretions in shale-bearing deposits of the Volga and Baltic Basins. Dokl. AN SSSR 135 no.6:1501-1504 D '60. (MIRA 13:12)

1. Geoligicheskiy institut Akademii nauk SSSR. Predstavlenc akademikom N.M. Strakhovym.

(Volga Valley--Pyrites) (Concretions) (Geochemistry)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

TIKHOMIROVA, Ye.S.

Distribution of iron, manganese, and phosphorus in lower Oligocene deposits of Manyshlak. Dokl. AN SSSR 143 no.3:705-708 Mr '62.

(MIRA 15:3)

1. Geologicheskiy institut AN SSSR. Predstavleno akademikom  $N_{\circ}M_{\circ}$  Strakhovym.

(Mangyshlak Peninsula---Manganese ores) (Geochemistry)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

TIKHOMIROVA, Ye.S.

Barite from lower Oligocene deposits of Mangyshlak. Dokl. AN SSSR 140 no.2:455-458 S '61. (MIRA 14:9)

1. Geologicheskiy institut AN SSSR. Predstavleno akademikom N.M. Strakhovym.

(Aksengir, Mount--Barite)

ELIASHBERG, M.G.; PARFENOVA, A.I.; TIKHCHIROVA, Ye.V.

New data on the theory of the sulfite process and its practical significance. Bum.prom.30 no.9:9-13 S'55. (MIRA 8:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut bumagi (Wood pulp)

TIKHOMIROVA, Ye.V.

Studying the effect of temperature and time of drying on the properties of flax yarn. Report No.1. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.1:19-25 '64.

(MIRA 17:5)

1. Kostromskoy tekhnologicheskiy institut.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

Changes Occurring in the mechanical properties of flax-levsan fiber blends as a result of heating during drying. Tav.vys.ucheb. zav.; tekh.tekst.prom. no.3:33-36 165.

1. Kostromskoy tekhnologicheskiy institut.

ELIASHEERG, M.G.; PARFENOVA, A.I.; TIKHOMIROVA, Ye.V.

New data on the theory of sulfite wood pulp cooking and their practical significance. Bum.prom. 30 no.10 no.10:5-7 0 '55.

(MIRA 9:1)

1.TSentral'nyy nauchno-issledovatel'skiy institut bumagi.

(Wood pulp)

TIKHOMIROVA, Ye.V.

Studying the effect of the temperature and time of drying on the properties of lines yavn. Izv. vys. uchev. mav.; tekh. teks. prom. (MIRA 17:10)

1. Kostromskoy tekhnologicheskiy institut.

no.3:26-31 164.

Studying the effect of temperature and time of rying on the properties of flax yarn. Report Holf. Jav. typ. ucneb. sav.; tekh. tekst. prom. no.4:16-19 '64. (MRA 17:12)

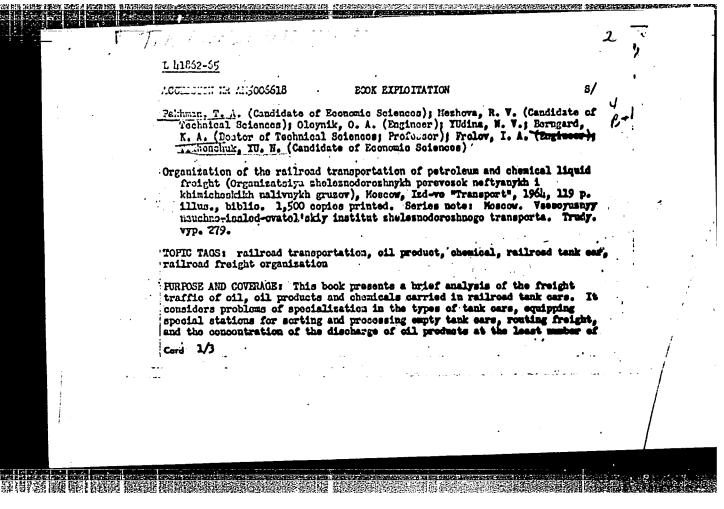
1. Kostromskoy tekhnologicheskiy institut.

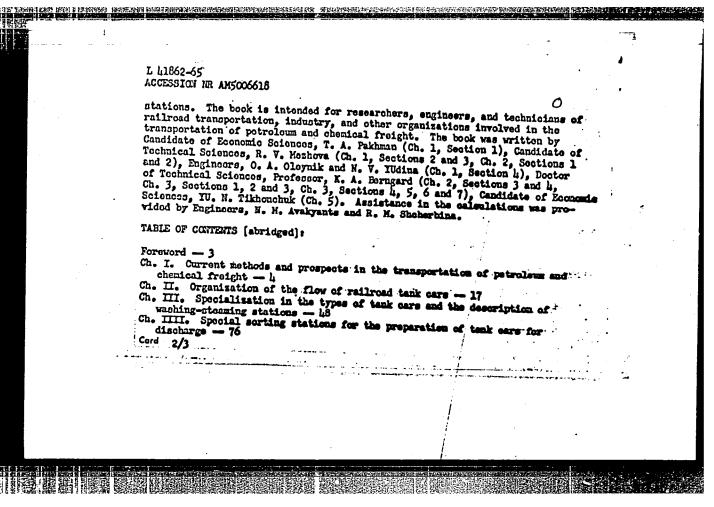
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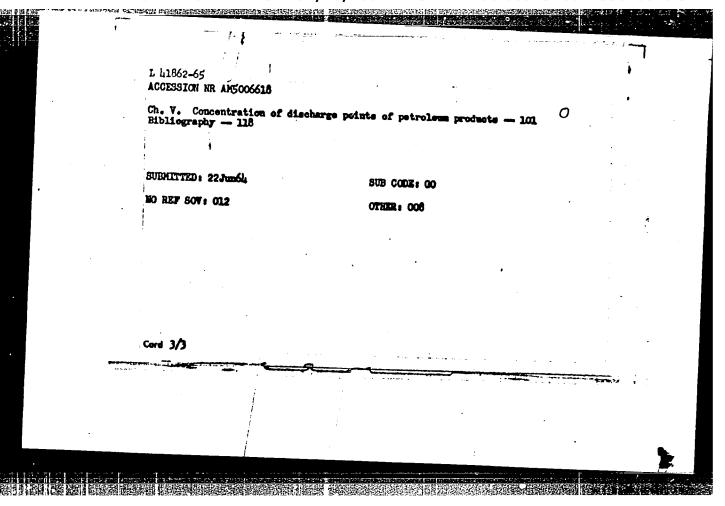
PAKHMAN, T.A., kand. ekonom. nauk; MEZHOVA, R.V., kand. tekhn. nauk; OLEYNIK, O.A., inzh.; YUDINA, N.V.; BERNGARD, K.A., doktor tekhn. nauk, prof.; FROLOV, I.A., inzh.; TIKHONCHUK, Yu.N., kand. ekon. nauk; Prinimali uchastiye: AVAK'YANTS, N.M., inzh.; SHCHERBINA, R.M., inzh.; PETROVA, V.L., red.

[Organization of the railroad transportation of petroleum and chemical liquid cargo.] Organizatsiia zheleznodorozhnykh perevozok neftianykh i khimicheskikh nalivnykh gruzov. Moskva, Transport, 1964. 119 p. (Trudy Vsesoiuznogo nauchno-issledovatel'skogo instituta zheleznodorozhnogo transporta no.279).

Coordinated development and distribution of the freight organizations for railroads. Transp.stroi. 13 no.10:52-53 0 '63. (MIRA 17:8)







# TIKHOMIROVA, Yu.S.

Scientific session on physical electronics. Radiotekh. i elektron. 9 no.12:2195-2196 D 64 (MIRA 18:1)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

L 16004-65 AEDC(b)
ACCESSION NR: AP5000465

3 (0109 164 (009 (012 (2125 (2126

AUTHOR: Tiknomirova, Yu. S.

TITLE: Scientific Conference on physical electronics

SOURCE: Radiotekhnika i elektronika, v. 9, no. 12, 1964, 2195-2196

TOPIC TAGS: physical electronics

AFISTRACTS: Organized by the Scientific Beard on Thysical Electropics, O FF AN, the Conference of 15-17 and 1767 and 1767.

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Card 1/2

L 16004-65

ACCESSION NR: AP5000465

ASSOCIATION: none

SUBMITTED: 00

ENCL: (x)

SUB CODE: SS, EC

NO REF SOV: OGO

OTHER: 000

Card 2/2

BUKHGOL'TS, V.P., kand.tekhn.neuk; TIKHOMURGVA, J.T., inzh.

Graphoanalytic method of designing a magnetic circuit with a large air space. Mekh. i avtom. v gor. prom. no.3:267-287 '63.

(MIRA 16:10)

86875

4.2120 9.2130 (1001,1135)

S/105/61/000/001/002/007 B012/B059

AUTHOR:

Tikhomirova, Z. T., Engineer

TITLE:

Examination of the Methods of Calculating Air-gap Magnetic

Circuits of Instruments and Apparatuses

PERIODICAL: Elektrichestvo, 1961, No. 1, pp. 42-48

TEXT: In the present paper, four calculation methods are compared with the experimental data. The model of a magnetic circuit shown in Fig. 1 serves as basis. According to this comparison, the use of the mentioned methods is recommended for various cases. A magnetic direct with distributed magnetizing force is investigated, i.e., a magnetic system in which the stray flux between the cores is not linked to all turns of the coil and in which the magnetizing force of the coil changes with the length of the core according to the f<sub>k</sub>x-law. The methods of solving equation (3)

$$\frac{d^{2}\Phi_{x}}{dx^{2}} - 2gR_{\mu}\Phi + gf_{x} = 0, \tag{3}$$

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Examination of the Methods of Calculating Air-gap Magnetic Circuits of Instruments and Apparatuses

Card 2/3

S/105/61/000/001/002/007 B012/B059

ob g=constant and  $\mu\neq constant$ , i.e. a saturated system with constant stray conductivity (provodimost' rasseyaniya) are investigated.  $f_k$  denotes the specific magnetizing force of the coil, g - the specific conductivity of straying between the cores, R - the magnetic reluctance of the core per unit length. The following approximation methods are discussed: 1) the graphical-analytical method as suggested by B. S. Sotskov (Ref. 1), 2) the method of numerical integration (Refs. 2,3), 3) the method of double graphical integration worked out by N. A. Livshits (Ref. 4), 4) the graphical-analytical method (solution of the equation by means of isoclinic lines) worked out by B. K. Bul' (Ref. 5). According to this investigation, the following is stated. The method suggested by B.S.Sotskov (Ref. 1) is the most convenient one and requires the least work. The great advantage of this method is the quick and clear determination of the coil magnetic force from given flux in the air gap as well as solution of the inverse problem. All other methods solve the problem by means of successive approximation. However, considering the fact that B. 3. Sotskov's method

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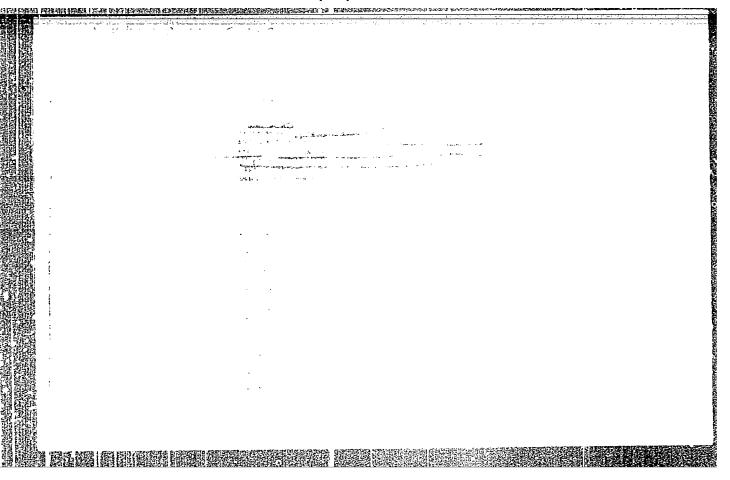
Examination of the Methods of Calculating Air-gap Magnetic Circuits of Instruments and Apparatuses

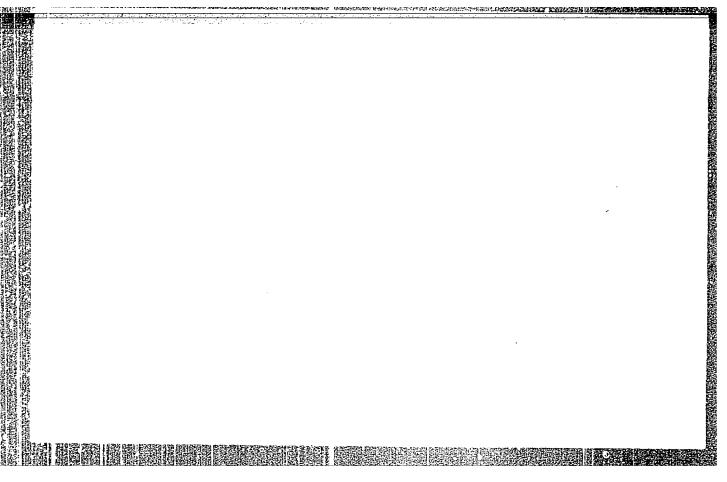
S/105/61/000/001/002/007 B012/B059

leads to great errors, particularly in the case of narrow gaps, the former method is recommended for preliminary calculation of the magnetic circuit in designing electrical devices. The method of numerical integration is also recommended for preliminary computation of magnetic circuits. It is not recommended for checking. However, this method has an advantage: A magnetic circuit can be calculated in the case of varying specific conductivity of straying (assuming g to be constant in this section). This problem cannot be solved by means of any other of the mentioned methods. The methods of double numerical integration and the method of the isoclinic lines are the most accurate onesand are recommended for control computations. Lengthy work is a shortcoming of these methods. There are 7 figures, 3 tables, and 6 Soviet references.

SUBMITTED: June 8, 1960

Card 3/3





AUTHORS:

Tikhomirova-Sidorova, N. S.;

SOV/79-28-12-9/41

Ustyuzhanin, G. Ya.

TITLE:

Amino Derivatives of 1,4-Anhydroxylite (Aminoproizvodnyye

1,4-angidroksilita)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol 28, Nr 12, pp 3210-3213

(USSR)

ABSTRACT:

The authors completed their earlier papers (Ref 1) by synthesizing the amino derivatives of xylitane starting from its chlorohydrin (5-chlorc-1,4-anhydroxylite). The amino derivatives of xylite and xylitane have hitherto remained unknown. There is only few data available on the amination of the other multivalent alcohols. Thus, the 1,6-diamino mannite was obtained from dichloro-dimethylene mannite on heating in the autoclave with ammonia in methyl alcohol (Ref 2). Reactions of xylitane chlorohydrin with various amines were investigated and the following compounds, hitherto unknown were synthesized: 5-amino-1,4-anhydroxylite (I), 5-ethyl-amino-1,4-anhydroxylite (II), 5-diethyl-amino-1,4-anhydroxylite (III), 5-phenyl-amino-1,4-anhydroxylite (IV), and 5-piperidino-1,4-

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anhydroxylite (V). The amines were characterized by their

Amino Derivatives of 1,4-Anhydroxylite

507/79-28-12-9/41

tosyl derivatives which were used for the following syntheses. The action of p-toluenesulfonyl chloride is directed to the transformation of the alcohol groups into ester groups (VI to X) as well as to the amino groups for the primary amine (I) and the secondary amines (II, IV), with substituted sulfonamides (VI-VIII) being formed.

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Amino Derivatives of 1,4-Anhydroxylite

SOV/79-28-12-9/41

The conditions of the synthesis, the properties and analyses of the amino derivatives of xylitane are mentioned in table 1, their tosyl esters are mentioned in table 2. There are 2

tables and 2 references, 1 of which is Soviet.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk

SSSR (Institute of High-Molecular Compounds, Academy of Sciences,

USSR)

SUBMITTED: January 20, 1958

Card 3/3

AUTHORS:

Temnikova, T. I., Anikeyeva, A. N., SOV/79-28-12-2/41

Tikhomirova-Sidorova, N. S.

TITLE:

S. N. Danilov's Work in the Field of Isomeric Transformations and Molecular Regroupings of Carbonyl, Oxy-Carbonyl Compounds and Carbohydrates, and Their Theoretical Importance (Raboty S. N. Danilova v oblasti izomernykh prevrashcheniy i

molekulyarnykh peregruppirovok karbonil'nykh, oksikarbonil'nykh

soyedineniy i uglevodov i ikh teoreticheskoye znacheniye)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol 28, Nr 12,

pp 3162-3173 (USSR)

nd decisional and estimate incremental trade attractional process. The second respectively

ABSTRACT:

Since Danilov's first work 45 years ago there has taken place

a great change in theory concerning the problem of the

molecular regroupings and isomeric transformations of oxygencontaining compounds; this was mainly due to Danilov's and his cooperators' work. At present it is taken for sure that molecular regroupings which complicate chemical processes in organic chemistry, depend kinetically on the displacement of the hydrogen atoms or the carbohydrate group into the

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adjacent position. The isomeric equilibrium transformations, which take place very easily in some cases under the influence

**APPROVED FOR RELEASE: 07/16/2001** CIA-RDP86-00513R001755610016-9"

S. N. Danilov's Work in the Field of Isomeric SOV/79-28-12-2/41 Transformations and Molecular Regroupings of Carbonyl, Oxy-Carbonyl Compounds and Carbohydrates, and Their Theoretical Importance

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of the catalysts favorable to these transformations, depend, like all equilibrium processes, on thermodynamic factors. According to detailed reports published by Danilov important conditions are mentioned that must be taken into consideration in interpreting the mechanism of molecular regroupings of the  $\alpha$ -glycols. The basic idea throughout all his papers is that the process of transformation depends not only on the radicals but also on their interaction, on the dehydrating agent and on conditions under which the dehydration takes place. He and his cooperators systematically investigated the behavior of α-oxy-aldehydes under the action of various catalysts, which led to important results. The oxy-aldehyde-oxy-ketone regrouping in acid medium according to Danilov takes place under an intermediate formation of  $\alpha$ -alcohol oxides (scheme on page 3167). The manifold types of isomeric transformations and molecular regroupings were illustrated by Danilov with supplementary informations offered by other scientists according to the scheme of transitions of genetically related

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S. N. Danilov's Work in the Field of Isomeric SOV/79-28-12-2/41 Transformations and Molecular Regroupings of Carbonyl, Oxy-Carbonyl Compounds and Carbohydrates, and Their Theoretical Importance

compounds as mentioned on page 3169 (upper half); this was carried out, for instance; in the case of compounds with two phenyl groups and two carbon atoms in the chain (the big arrows point to the transformation types realized by him). The logical continuation of the investigations of the transformations of analyse carbonyl compounds were his manifold papers on the monoses and disaccharides, as, for instance, those on a new method for the "epimerization" of sugars. He and his cooperators synthesized a large number of derivatives of multivalent alcohols, their aldehydes and monoses. Based on an intramolecular simultaneous acid-alkaline reaction process found by him in a large number of reactions he could explain many biochemical processes of nature. There is 1 table.

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

DANILOV, S.N.; TIKHOMIROVA-SIDOROVA, N.S.; USTYUZHANIN, G.Ye.; YEFIMOVA, G.Ye.; KOGAN, E.M.

New data on the structure of xylitol dianhydride. Zhur.ob. khim. 32 no. 2:656-657 F '62. (MIRA 15:2)

 Institut vysokomolekulyarnykh soyedineniy. (Xylitol)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

DANILOV, S.N.; TIKHOMIROVA-SIDOROVA, N.S.; USTYUZHANIN, G.Ye.; YEFIMOVA, G.A.

Cleavage of an anhydride ring in dianhydroxylitol by amines. Zhur.ob.khim. 32 no.11:3614-361 N '62. (MIRA 15:11)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Xylitol) (Anhydrides) (Amines)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"

THE REPORT OF THE PROPERTY OF

USTYUZHANIN, G.Ye.; YEFIMOVA, G.A.; KOGAN, E.M.; TIKHOMIROVA-SIDDROVA, N.S.; DANILOV, S.N.

Cleavage of an anhydride ring in dianhydroxylitol and its derivatives by hydrogen chloride in glacial acetic acid. Zhur.ob.khim. 32 no.11:3617-3621 N '62. (MIRA 15:11)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Xylitol) (Anhydrides) (Hydrochloric acid)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755610016-9"